Office Action Summary

Application No. 09/525,247

Applicant(s)

Uriu et al.

Examiner

Tuyen T. Nguyen

Art Unit 2832

The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.					
- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.					
- If NO po - Failure t - Any rep	eriod for reply specified above is less than thirty (30) days, a reply within the eriod for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) he application to beco) MONTHS fome ABAND	from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status	•				
1) 💢	Responsive to communication(s) filed on <u>Dec 16, 2</u>	2002		<u> </u>	
2a) 🗌	This action is FINAL . 2b) 💢 This act	ction is FINAL . 2b) 💢 This action is non-final.			
	since this application is in condition for allowance except for formal matters, prosecution as to the merits is losed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
Disposition of Claims					
4) 💢	Claim(s) 8-15 and 21-38			is/are pending in the application.	
4	a) Of the above, claim(s)			is/are withdrawn from consideration.	
	Claim(s)				
6) 💢	Claim(s) <u>8-15 and 21-38</u>		27 (100)	is/are rejected.	
7) 🗆	Claim(s)			is/are objected to.	
	Claims				
Application Papers					
9) 🗆	The specification is objected to by the Examiner.				
10) 🗆	The drawing(s) filed on is/are a) ☐ accepted or b) ☐ objected to by the Examiner.				
	Applicant may not request that any objection to the d	Irawing(s) be he	∍ld in ab∉	eyance. See 37 CFR 1.85(a).	
11)□	The proposed drawing correction filed on	is	;: a)□	approved b) \square disapproved by the Examiner.	
	If approved, corrected drawings are required in reply t	to this Office ac	ction.		
12)	The oath or declaration is objected to by the Exami	iner.			
Priority under 35 U.S.C. §§ 119 and 120					
13)💢	Acknowledgement is made of a claim for foreign pr	riority under 3!	5 U.S.C.	. § 119(a)-(d) or (f).	
a) ☑ All b) □ Some* c) □ None of:					
1	1. 💢 Certified copies of the priority documents have been received.				
2	$2.\square$ Certified copies of the priority documents have	re been receivε	ed in Apr	plication No	
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).				
*See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).					
a) U The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)					
	ent(s) ice of References Cited (PTO-892)	4) Interview St	ımmanı (PT	O-413) Paper No(s).	
~	rice of Draftsperson's Patent Drawing Review (PTO-948)			nt Application (PTO-152)	
	ormation Disclosure Statement(s) (PTO-1449) Paper No(s)4	6) Other:			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 21-50 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 21, 25, 29, 34, applicant should clarify what is intended by "so as to have no specific gap." The phrase "so as to have no specific gap" is a negative limitation. Applicant should claim what the structure does and not what it does not.

Regarding claims 40, 42, 44, 46, 48 and 50, applicant should clarify what is intended by "no specific gap." The specific gap structure is unclear.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 8-15, 21-28 and 39-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Zsamboky et al. [US 5,716,713] in view of Oba et al. [JP 58-98906]

Zsamboky et al. discloses a ceramic stacked planar transformer structure comprising:

- at least one ceramic layer [160]; and

- at least one fine, continuous copper pattern [134] formed on the layer by an electroforming

process.

Zsamboky et al. discloses the instant claimed invention except for the specific thickness to

width ratio of the conductive pattern.

Oba et al. discloses a coil pattern [3] formed on a peripheral surface of a magnetic material

[1] through an insulating layer [2] by an electroforming process, wherein the coil pattern having a

width to thickness ratio within the claimed ratio.

It would have been obvious to one having ordinary skilled in the art at the time the invention

was made to use the conductive pattern of Oba et al. in Zsamboky et al. for the purpose of reducing

size of the device.

The specific shape of the conductive patterns would have been an obvious design

consideration depending upon the specific application of the inductive components.

5. Claims 29-38 and 47-50, as best understood in view of the rejection under 112 second

paragraph, are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokochi et al. [JP 6-

20839] in view of Oba et al. [JP 58-98906].

Yokochi et al. discloses a ceramic chip inductor [figure 1] comprising:

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- at least one ceramic layer [1a, 1b, 1c]; and

- at least one fine, continuous conductive pattern [3a, 3b] formed on the ceramic layer.

Yokochi et al. discloses the instant claimed invention except for the specific thickness to width ratio of the conductive pattern, the specific method of forming the conductive pattern and the specific material used for the conductive pattern.

Oba et al. discloses a coil pattern [3] formed on a peripheral surface of a magnetic material [1] through an insulating layer [2] by an electroforming process, wherein the coil pattern having a width to thickness ratio within the claimed ratio.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the conductive pattern of Oba et al. in Zsamboky et al. for the purpose of reducing the size of the device.

The specific shape of and material used for the conductive patterns would have been an obvious design consideration depending upon the specific application of the inductive components.

Response to Arguments

6. Applicant's arguments filed 12/16/02 have been fully considered but they are not persuasive.

Applicant argues that:

[1] "no specific gap" means that the conductive pattern and the insulation layer are substantially in contact;

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[2] There is no motivation shown by Oba et al. to increase the thickness of the conductive

pattern and reduce the width thereof; and

[3] There is no motivation to use the electroforming process of Oba et al. on a ceramic layer.

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The examiner disagrees.

Regarding [1], applicant has not claimed, nor has examiner considered, the conductive

patterns and insulating layers being substantially in contact. "No specific gap" does not define any

specific structural limitations.

Regarding [2], Oba et al. teaches that by using the coil pattern shown the device can be made

more compact.

Regarding [3], Oba et al. teaches that the conductive pattern is applied to an insulative layer.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Tuyen T. Nguyen whose telephone number is (703) 308-0821.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Mr. Elvin Enad, can be reached at (703) 308-7619. The fax number for this Group is (703)305-

7724.

Any inquiry of a general nature or relating to status of this application of proceeding should

be directed to the Group receptionist whose telephone number is (703) 308-0956.

TTN **M**N March 9, 2003

Trugler T. Nguyen